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Report of the Treasurer**Receipts:**

| | |
|---|----------|
| Balance brought forward from 1923 | \$271.89 |
| Interest | 10.00 |
| Dues from A. A. A. S. members | 66.00 |
| Annual dues from K. A. S. members | 41.00 |
| Total dues received | \$107.00 |

Total Receipts \$388.89

Expenses:

Items pertaining to office of secretary \$ 73.49

Cash on hand April 2, 1924 \$315.40

—L. D. HAVENHILL, Treasurer

FIFTY-SEVENTH ANNUAL MEETING

KANSAS ACADEMY OF SCIENCE

Manhattan, April 10 and 11, 1925

OFFICERS FOR 1924-1925

| | |
|--|-----------------------|
| H. H. Nininger, McPherson | President |
| J. E. Ackert, Manhattan | First Vice-President |
| F. U. G. Agrelus, Emporia | Second Vice-President |
| L. D. Havenhill, Lawrence | Treasurer |
| E. A. White, Lawrence | Secretary |
| R. K. Nabours, H. P. Cady, J. E. Welin, and J. T. Willard; | |
| Additional Members of the Executive Council | |

PROGRAM

Friday, April 10, 1925

- 10:30 a. m. Business. Reading of Papers.
 1:00 p. m. Business. Reading of Papers.
 8:00 p. m. Presidential address by H. H. Nininger: "Observations on Meteorites with Special Reference to Kansas."

Saturday, April 11, 1925

- 8:30 a. m. Reports of Committees. Reading of Papers.
 11:00 a. m. Meeting of the new Executive Council.

PAPERS SUBMITTED AT THE FIFTY-SEVENTH SESSION

1. Darwin's Theory of Evolution: Is it True, or Has It Been Weighed in the Balance and Found Wanting? J. M. McWharf.
2. K. S. A. C. Botanical Notes, 1924. F. C. Gates.
(Published in this volume of the Transactions)
3. The Ranunculaceae of Kansas. J. W. Swallen.
4. The Effect of Environmental Conditions and Removal of the Glumes on Smut Infection in Oats. C. O. Johnston.
(Phytopathology, Vol. 17, pp. 31-36, 1927)
5. Studies on the Smut of Maize. L. E. Melchers.
6. Archaeology of the Cornfields District, Arizona. Albert B. Reagan.
(Published in this volume of the Transactions)
7. A New Cicindelid from Oregon and a new *Starategus* from Texas. W. Knaus.
8. *Plectrodera scalator* Fab. Abundant at Medora, Kansas, in 1924. W. Knaus.
9. The Green Clover Worm, *Plathypena scabra* Fabr. (Noctuidae), in Kansas. Roger C. Smith.
10. Education from the Standpoint of Biology. L. C. Wooster.
(Teaching, Kansas State Teachers College of Emporia, 1928)
11. Giant Nerve Fibers and Their Functions in Crayfish. George E. Johnson.
(Jour. Comp. Neur., Vol. 42, pp. 19-33, 1925)
12. Landmarks in the Study of Insect Hibernation. Nellie M. Payne.
(Ent. News, Vol. 37 (4) pp. 99-101, 1926)
13. Methods of Rearing Oak Boring Larvae. Nellie M. Payne.
14. A Preliminary Report on the Inheritance of Color Pattern in Mantidae. E. H. Ingersoll.
15. Botanical Notes for 1924. Frank U. G. Agrelius.
16. Some New Characters in Guinea Pigs that Have Proven to be Non-heritable. H. L. Ibsen.
17. Sugars: Further Remarks on. L. E. Sayre.
18. Glycerine: Some Useful Statistics. L. E. Sayre.
19. Extension of the Natural Range of Two Mammals in Clay County, Kansas. John H. Schaffner.
(Published in this volume of the Transactions)
20. The Mushroom Rocks near Carneiro, Kansas. H. J. Harnly.
21. The Reproductive System of *Apotettix eurycephalus* Hancock. Mary T. Harman.
(Jour. Morph. and Physiol., Vol. 41, No. 1)
22. The Chromosome Complex of *Cavia cobaya*. Mary T. Harman and Frank Root.
(Biol. Bull., Vol. 51, No. 2)
23. Further Studies on the Abnormalities of the Central Nervous System of the Chick. Lenora K. Doll. (Introduced by Mary T. Harman)
24. New Plans for Eugenic Education. William Goldsmith.
25. Rate of Growth and Locomotion of the Proglottides of *Taenia saginata*. William Goldsmith.
26. Water Solubility: An Economic Force. E. H. S. Bailey.
27. A Soil Study in Scott County, Kansas. M. C. Sewell and W. L. Latshaw.
(Published in this volume of the Transactions)
28. Another Kansas Meteorite. H. H. Nininger.
(Published in this volume of the Transactions)
29. A new Kansas Aerolite, Referable to the Fall of November 9, 1923. H. H. Nininger.
(Published in this volume of the Transactions)
30. Some Pedigrees Showing Inheritance of Human Traits. Robert K. Nabours.
31. A Study of the Blood Cells of Normal Rabbits. Edna Bangs. (Introduced by Dr. L. D. Bushnell)
(Published in this volume of the Transactions)
32. Evidence of Stream Piracy on the Dakota Hogback Between Golden and Morrison, Colorado. Walter H. Schoewe.
(Published in this volume of the Transactions)
33. Evidence of the Rocky Mountain Peneplain at Nippa Mountain, Colorado. Walter H. Schoewe.
34. A Study of Suppression of Growth in the Albino Mouse with Special Reference to Initial Age as a Factor Influencing Resumption of Growth. Emily M. Bennett.
35. The Problematical Hybrid Grosbeak. H. H. Nininger.
(Published in this volume of the Transactions)

36. The Bullock Oriole in Kansas. H. H. Nininger.
(Published in this volume of the Transactions)
37. The Trend of Real Estate Taxation in Kansas from 1910 to 1923. Eric Englund.
38. Trends in Farming in the Hard Winter Wheat Belt. W. E. Grimes.
39. Glands and Personality. G. H. Brettnall.
40. Posture and Health. G. H. Brettnall.
41. Electronization. H. P. Cady and Robert Taft.
42. Current Density and Electrolytic Oxidation and Reduction. H. P. Cady and Robert Taft.
43. Entropy of Vaporization. Robert Taft.
44. Some Recent Experiments on the Effect of Ultra-Violet Light upon Chickens. J. S. Hughes and R. W. Titus.
45. Cultural and Varietal Tests with Tomatoes. Walter B. Balch.
46. The Inheritance of Twinning in Holsteins. R. H. Lush.
(Jour. of Heredity, Vol. 16, pp. 273-279, 1925)
47. The Effect of Multiple Turning in Hatchability of Eggs. Loyal F. Payne.
48. Supplies of Farm Storage Space and Bank Credit in Relative Early Marketing of Wheat. R. M. Green.
49. Egg Masses of Some Chironomidae. Hazel E. Branch.
50. The Deer Creek Reservation and its Indians. Albert B. Reagan.
51. The Effect of 99.97 per cent Oxygen and .03 per cent Carbon Dioxide by Volume upon Animal Life. J. Willard Hershey.
(Abstract published in this volume of the Transactions)
52. Some Properties of Nitric Oxide. A. A. Groening.
53. A Survey of the Reptiles and Amphibians of Ellis County. L. D. Wooster.
54. An Exhibit of Biological Drawings. S. Fred Prince.
55. The Effect of Parasitism of the Thymus Glands of Chickens. James E. Ackert.
56. The Relation of Parasitism to the Blood Sugar Content of Chickens. James E. Ackert and R. W. Titus.
57. Observations on the Hibernation of Insects in Sudan Grass. H. R. Bryson.
58. Further Notes on Diurnal Raptores with Key for Field Identification. Howard K. Gloyd.
59. Recent Developments in Zoological Technique. C. A. Gunns.
60. Inheritance of Shank Color in Poultry. D. C. Warren.
61. Cigarette Smoke and Growing Rabbits. W. J. Baumgartner.
62. A New Boiling Point Apparatus. Howard T. Morgan and Howard M. Elsey.
63. A Combined Projection Lantern and Electroscope. Howard M. Elsey.
64. Relative Viscosity Measurements and Calculations. C. G. H. Johnston and H. M. Elsey.
65. Some Organic Oxidation and Reduction Cells. H. P. Cady, R. Q. Brewster, Selma Gottlieb and M. C. Moore.
66. Observations on the Gastropods of the Manhattan Vicinity. Elmer Cheatum.
67. The Tolerance of Fish to Hydrogen Ion Concentration in Nature. Harold Brown.
(Trans. Amer. Micro. Soc., Vol. 45, pp. 20-34, 1926)
68. An Unusual Infection of a Rabbit with Tape Worm Cysts. Minna E. Jewell.
(Trans. of the Helminthological Soc. of Washington, 1925)
69. A Time Study in Infant Care. Lucille Rust.
70. A Study of the Health of Seventy-one Elementary School Children. Jean S. Dobbs.
71. Electrolysis and Other Troubles Caused by Leakage Currents from Electric Railroads. Wm. H. Mathews.
72. The Relation of Vitamin B. to Parasitism in Chicks. Lola B. Vincent.

MINUTES OF THE FIFTY-SEVENTH ANNUAL MEETING.

The first session was called to order by the president, H. H. Nininger, at 10:30 on Friday morning.

The minutes of the fifty-sixth annual meeting were read and approved. The president appointed the following committees:

Program: Agrelius, Gates.

Resolutions: Knaus, Yates, Rankin.

Auditing: Taft, Smith.

Membership: White, Havenhill.

Publishing: White, Willard, Hershey.

Press: Goldsmith, Knaus.

Legislative: Sayre, Willard.

Research: Nabours, Schcewe, Weidlein.

Parks: McColloch.

Nominating: Harnley, Nabours, Wooster, L. C.

Necrology: Wooster, L. D., Brooks, C. H.

Papers were then read until noon.

At 1:30 p. m. a short business session was held. It was decided that a copy of each paper that is to be presented at the annual meeting be filed at the secretary's office for reference. Telegrams were sent to Dr. E. H. S. Bailey, Dean L. E. Sayre, and Secretary of Agriculture Jardine.

Papers were read until five o'clock when an automobile trip was taken. At six o'clock, the local members gave a banquet to the visitors. The evening was given over to a lecture on meteorites by President Nininger.

A few papers were read Saturday morning, but a large part of the time was taken by reports of committees.

The resolutions committee expressed appreciation to the resident members for their hospitality, gratification over the growth of the Academy, over the unusually large attendance of working members from many Kansas institutions. They pledged the support of the Academy to President-elect J. E. Ackert, and extended wishes for a successful year on leave of absence for the retiring president, H. H. Nininger.

The membership committee reported that the following new members have been added during the year: Alfred S. Perkins, Manhattan; W. L. Latshaw, Manhattan; George E. Johnson, Manhattan; Maurice A. Walker, Lawrence; E. H. Ingersoll, Manhattan; R. Q. Brewster, Lawrence; V. R. Vergadis, Clay Center; Wm. Bergen, McPherson; C. F. Gustafson, Kansas City, Mo.; R. W. Titus, Manhattan; Carl Schneider, McPherson; Wm. M. Goldsmith, Winfield; Ruth Thompson, Sterling; John Jason Meyer, Salina; A. A. Groening, Hillsboro; Lucille C. Rust, Manhattan; Jason Swallen, Manhattan; Martha Kramer, Manhattan; Martha Pittman; Margaret Justin, Manhattan; Pearle E. Ruby, Manhattan; Minna E. Jewell, Manhattan; R. M. Green, Manhattan; Martha E. Foster, Manhattan; Eric Englund, Manhattan; Jean Dobbs, Manhattan; May Danheim, Manhattan; H. R. Bryson, Manhattan; Lillian Baker, Manhattan; Elmer Cheatum, Manhattan; Lola B. Vincent, Manhattan, E. C. Converse, Manhattan; J. O. Hamilton, Manhattan; G. E. Raburn, Manhattan; A. W. Angulo, Manhattan; D. H. Spencer, Lawrence; M. C. Sewell, Manhattan; R. H. Lush, Manhattan; Naomi B. Zimmerman, Manhattan; C. W. McCampbell, Manhattan; Arthur D. Weber, Manhattan; B. M. Anderson, Manhattan; Merle Suter, Wifield; W. E. Grimes, Manhattan.

Report of the Parks or Ecological Committee

During the past year your committee has continued the cooperation with the committee on the preservation of natural conditions of the Ecological Society of America.

A general account of the ecological features of Kansas was prepared for the Naturalist's Guide. The descriptions of twelve natural areas in Kansas which were submitted to the committee were edited and prepared for publication, thirteen additional areas were located and described.

A series of maps were also prepared showing the various ecological features of the state and the location of the several areas suggested for preservation.

A bibliography of the insects of Kansas has been compiled. This now contains approximately 100 titles.

Recommendations:

Your committee would recommend that the cooperation with the Ecological Society of America be continued and that additional natural areas be described. At present only seventeen counties are represented in this survey, while it is hoped that eventually there will be at least one area in each county.

Your committee would also recommend that the Kansas Academy of Science undertake or sponsor an ecological survey of the state which would consider: (1) the ecological features of the state, (2) annotated lists of the plants and animals, giving distribution, habitats, and other essential data, (3) bibliography of the ecological literature of the state, and (4) ecological surveys of typical areas in the state.

This recommendation is made because there is a great need for a comprehensive ecological survey of the state. Investigators in various lines of biological research are often handicapped by the meager data on the ecological features of the state and by the lack of complete lists of plants and animals.

A great change has taken place in the biota of Kansas during the past fifty years. Approximately 84 per cent of the land area has been transformed from native conditions to farm land with the result that many animals and plants, once abundant, have disappeared while many others have been introduced. Fortunately this change has been recent and it is still possible to study the succession of plant and animal life following the interference of man. The disappearance of the buffalo and some of the larger game has had a marked influence on the biota of the state, as has the introduction of such plants as wheat, corn, sorghum and alfalfa. Kansas also presents an excellent field for ecological studies because of its central location, its prairies and plains, and its humid and semiarid regions.

Much of the pioneer work has been done along various lines. This work, however, is often fragmentary and scattered through many publications. For example, in 1877 Popenoe published a preliminary list of the Coleoptera of Kansas in which about 1200 species were enumerated. Since then sixteen additional lists have been published and approximately 3,500 species have been recorded. These lists should be brought together and revised, since there is considerable confusion resulting from changes in synonymy and erroneous determinations, especially in the earlier papers.

There has been no attempt made to compile a complete list of the insects of Kansas. Certain orders have been treated extensively, while others have been woefully neglected. The literature on Kansas insects comprises over 100 papers published in more than fifteen journals and this information should be brought together.

The same condition applies to other groups of animals and to plants, and offers an excellent field of work for this Academy. This is in line with similar work now under way in a number of states. Illinois, through its State Laboratory of Natural History, is conducting ecological surveys in that state and their Academy of Science has an ecological survey committee. The Geological and Natural History Survey of Connecticut has issued a number of catalogues and check-lists of different groups of animals and plants of that state.

In making this recommendation, your committee feels that many valuable papers would be secured for publication in the Transactions and that it will offer an opportunity for a large number of members to cooperate in bringing this material together.

J. W. McColloch
R. L. Hensel
Grace Meeker

The necrology committee reported that no deaths had occurred.

The nominating committee reported the following nominations:

President, J. E. Ackert; first vice-president, H. M. Elsey; second vice-president, Wm. Goldsmith; treasurer, L. D. Havenhill; secretary, E. A. White; additional members of the executive council: H. H. Nin-

